



OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/082,618

DATE: 06/06/2002  
TIME: 10:34:29

Input Set : A:\70050003.app  
Output Set: N:\CRF3\06062002\J082618.raw

ENTERED

3 <110> APPLICANT: OLSTEIN, ALAN D.  
4 FEIRTAG, JOELLEN  
6 <120> TITLE OF INVENTION: BACTERIOCIN-METAL COMPLEXES IN THE DETECTION OF  
7 PATHOGENS AND OTHER BIOLOGICAL ANALYTES  
9 <130> FILE REFERENCE: 7005-0003  
11 <140> CURRENT APPLICATION NUMBER: 10/082,618  
12 <141> CURRENT FILING DATE: 2002-02-22  
14 <160> NUMBER OF SEQ ID NOS: 8  
16 <170> SOFTWARE: PatentIn Ver. 2.1  
18 <210> SEQ ID NO: 1  
19 <211> LENGTH: 52  
20 <212> TYPE: PRT  
21 <213> ORGANISM: Staphylococcus gallinarum  
23 <400> SEQUENCE: 1  
24 Met Glu Ala Val Lys Glu Lys Asn Glu Leu Phe Asp Leu Asp Val Lys  
25 1 5 10 15  
27 Val Asn Ala Lys Glu Ser Asn Asp Ser Gly Ala Glu Pro Arg Ile Ala  
28 20 25 30  
30 Ser Lys Phe Leu Cys Thr Pro Gly Cys Ala Lys Thr Gly Ser Phe Asn  
31 35 40 45  
33 Ser Tyr Cys Cys  
34 50  
37 <210> SEQ ID NO: 2  
38 <211> LENGTH: 60  
39 <212> TYPE: PRT  
40 <213> ORGANISM: Staphylococcus epidermidis  
42 <400> SEQUENCE: 2  
43 Met Lys Asn Asn Lys Asn Leu Phe Asp Leu Glu Ile Lys Lys Glu Thr  
44 1 5 10 15  
46 Ser Gln Asn Thr Asp Glu Leu Glu Pro Gln Thr Ala Gly Pro Ala Ile  
47 20 25 30  
49 Arg Ala Ser Val Lys Gln Cys Gln Lys Thr Leu Lys Ala Thr Arg Leu  
50 35 40 45  
52 Phe Thr Val Ser Cys Lys Gly Lys Asn Gly Cys Lys  
53 50 55 60  
56 <210> SEQ ID NO: 3  
57 <211> LENGTH: 22  
58 <212> TYPE: PRT  
59 <213> ORGANISM: Streptococcus mutans  
61 <400> SEQUENCE: 3  
62 Phe Lys Ser Trp Ser Phe Cys Thr Pro Gly Cys Ala Lys Thr Gly Ser  
63 1 5 10 15  
65 Phe Asn Ser Tyr Cys Cys

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/10/082,618

DATE: 06/06/2002  
 TIME: 10:34:29

Input Set : A:\70050003.app  
 Output Set: N:\CRF3\06062002\J082618.raw

```

66          20
69 <210> SEQ ID NO: 4
70 <211> LENGTH: 56
71 <212> TYPE: PRT
72 <213> ORGANISM: Bacillus subtilis
74 <400> SEQUENCE: 4
75 Met Ser Lys Phe Asp Asp Phe Asp Leu Asp Val Val Lys Val Ser Lys
76 1          5          10          15
78 Gln Asp Ser Lys Ile Thr Pro Gln Trp Lys Ser Glu Ser Leu Cys Thr
79          20          25          30
81 Pro Gly Cys Val Thr Gly Ala Leu Gln Thr Cys Phe Leu Gln Thr Leu
82          35          40          45
84 Thr Cys Asn Cys Lys Ile Ser Lys
85          50          55
88 <210> SEQ ID NO: 5
89 <211> LENGTH: 57
90 <212> TYPE: PRT
91 <213> ORGANISM: Lactococcus lactis
93 <400> SEQUENCE: 5
94 Met Ser Thr Lys Asp Phe Asn Leu Asp Leu Val Ser Val Ser Lys Lys
95 1          5          10          15
97 Asp Ser Gly Ala Ser Pro Arg Ile Thr Ser Thr Ser Leu Cys Thr Pro
98          20          25          30
100 Gly Cys Lys Thr Gly Ala Leu Met Gly Cys Asn Met Lys Thr Ala Thr
101          35          40          45
103 Cys His Cys Ser Ile His Val Ser Lys
104          50          55
107 <210> SEQ ID NO: 6
108 <211> LENGTH: 52
109 <212> TYPE: PRT
110 <213> ORGANISM: Staphylococcus epidermidis
112 <400> SEQUENCE: 6
113 Met Glu Ala Val Lys Glu Lys Asn Asp Leu Phe Asn Leu Asp Val Lys
114 1          5          10          15
116 Val Asn Ala Lys Glu Ser Asn Asp Ser Gly Ala Glu Pro Arg Ile Ala
117          20          25          30
119 Ser Lys Phe Ile Cys Thr Pro Gly Cys Ala Lys Thr Gly Ser Phe Asn
120          35          40          45
122 Ser Tyr Cys Cys
123          50
126 <210> SEQ ID NO: 7
127 <211> LENGTH: 55
128 <212> TYPE: PRT
129 <213> ORGANISM: Staphylococcus epidermidis
131 <400> SEQUENCE: 7
132 Met Asn Asn Ser Leu Phe Asp Leu Asn Leu Asn Lys Gly Val Glu Thr
133 1          5          10          15
135 Gln Lys Ser Asp Leu Ser Pro Gln Ser Ala Ser Val Leu Lys Thr Ser
136          20          25          30

```

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/082,618

DATE: 06/06/2002  
TIME: 10:34:29

Input Set : A:\70050003.app  
Output Set: N:\CRF3\06062002\J082618.raw

```

138 Ile Lys Val Ser Lys Lys Tyr Cys Lys Gly Val Thr Leu Thr Cys Gly
139           35           40           45
141 Cys Asn Ile Thr Gly Gly Lys
142           50           55
145 <210> SEQ ID NO: 8
146 <211> LENGTH: 767
147 <212> TYPE: DNA
148 <213> ORGANISM: Streptococcus lactis
150 <400> SEQUENCE: 8
151 agttgacgaa tatttaataa ttttattaat atcttgattt tctagttcct gaataatata 60
152 gagatagggt tattgagtct tagacatact tgaatgacct agtcttataa ctatactgac 120
153 aatagaaaca ttaacaaatc taaaacagtc ttaattctat cttgagaaaag tattggtaat 180
154 aatattattg tcgataacgc gagcataata aacggctctg attaaattct gaagtttggt 240
155 agatacaatg atttcgttcg aaggaactac aaaataaatt ataaggaggc actcaaatg 300
156 agtacaaaag attttaactt ggatttggtg tctgtttcga agaaagattc aggtgcatca 360
157 ccacgcatta caagtatttc gctatgtaca cccggttgta aaacaggagc tctgatgggt 420
158 tgtaacatga aaacagcaac ttgtcattgt agtattcacg taagcaaata accaaatcaa 480
159 aggatagtat tttgttagtt cagacatgga tactatccta tttttataag ttatttaggg 540
160 ttgctaaata gcttataaaa ataaagagag gaaaaaacat gataaaaagt tcatTTaaag 600
161 ctcaaccgtt tttagtaaga aatacaattt tatctccaaa cgataaacgg agttttactg 660
162 aatatactca agtcattgag actgtaagta aaaataaagt ttttttgga cagttactac 720
163 tagctaatacc taaactctat gatgttatgc agaaatataa tgctggt 767

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/082,618

DATE: 06/06/2002

TIME: 10:34:30

Input Set : A:\70050003.app

Output Set: N:\CRF3\06062002\J082618.raw